FIG. 1

```
MCLK1   MRHSKRTYC-------PDWDERDWDYGTWRSSSSHKRKKRSHSSAREQKR          43
MCLK2   P.PR.YHSSERGSRGSYHEHYQSRKHKRRR.R.WSSSSDRTRRR.REDS          50
MCLK3   H.C..YRSPEPDPYLTYRWK.RRS.SREHEGRLRYPSR.EPPPR.S---          47
MCLK4   .......H.-------....S.ESWGHESY.G-....R.....TQ.NRH          42

MCLK1   CRYDHSKTTDSYYLESRSINEKAYHSRRYVDEY--RNDYMGYEPGHPYGE          91
MCLK2   YHVRSRSSY.DHSSDR.LY-------D.RYCGSYR....SRDRGEAY.DT         93
MCLK3   SRE.APYRTRKHAHHCHK.RTRSCSSASSRSQQSSKRSSR--------..         94
MCLK4   .KPH.QFKDSDCHYLEARCLNERDYRD.RYIDEY-....CEGYVPRH.HR         91

MCLK1   PGSRYQMHS-SKSSGRSGRSSYKSKHRSRHHTSQHHSDGHSHRRKRSRSV         140
MCLK2   DFRQSYEYHREN..Y..Q...RRKHR.R.RRSRTFSRSSSHSS.RAK-..         142
MCLK3   SRE.APYRTRKHAHHCHK.RTRSCSSASSRSQQSSKRSSR--------..         136
MCLK4   DVESTYRIHC....V..R...P.R.RNRPCASH.S..--.........I          139

MCLK1   EDDEEGHLICQSGDVLSARYEIVDTLGEGAFGKVVECIDHKVGGRRVAVK         190
MCLK2   ...A.....YHV..W.QE.....S.....TS.R..Q...RR..T...L.         192
MCLK3   ...K....V.RI.SW.QE.....GN....T.......L..ARGKSQ..L.         186
MCLK4   ................R.....................GMD.LH....          189

MCLK1   IVKNVDRYCEAAQSEIQVLEHLNTTDPHSTFRCVQMLEWFEHRGHICIVF         240
MCLK2   .I...EK.K...RL..N...KI.EK..KNKNL....FD..DYH..M..S.         242
MCLK3   .IR..GH.R...RL..N..KKIKEK.KENK.L..L.SD.NFH..M..A.          236
MCLK4   .....GG.R...R.........S...N.V.........D.H..V....           239

MCLK1   ELLGLSTYDFIKENSFLPFRMDHIRKMAYQICKSVNFLHSNKLTHTDLKP         290
MCLK2   .......F..L.D.NY..YPIHQV.H..F.L.QA.K...D.........         292
MCLK3   ....KN.FE.L...N.Q.YPLP.V.H....L.HALR...E.Q.......         286
MCLK4   ...................QI....Q......Q.I....H.........         289

MCLK1   ENILFVKSDYTEANPKMKRDERTIVNPDIKVVDFGSATYDDEHHSTLVS         340
MCLK2   ......N...ELT..LEK.....SVKSTAVR.......F.H....I..         342
MCLK3   ......N..EFETL..EHKSCE.KSVK.TSIR.A......F.H...T.I.A       336
MCLK4   ..........VVK..S........LK.T.....................          339
                                                        ****
MCLK1   TRHYRAPEVILALGWSQPCDVWSIGCILIEYYLGFTVFPTHDSREHLAMM         390
MCLK2   ..........E.............IF...V...L.Q...N.......         392
MCLK3   .....P.....E...A...........F...R...L.Q....K......         386
MCLK4   ....................................Q....K......          389
        **
MCLK1   ERILGPLPKHMIQKTRKRRYFHHDRLDWDEHSSAGRYVSRRCKPLKEFML         440
MCLK2   ......V.SR..R....QK..YRG.....NT.....REN....RRYLT         442
MCLK3   .K....I.S...HR...QK..YKGG.V...N..D....KEN.....SY..       436
MCLK4   ......I.A.........K....NQ.............R.............      439
                                                    <
MCLK1   SQDAEHEFLFDLVGKILEYDPAKRITLKEALKHPFFYPLKKHT               483
MCLK2   .EAED.HQ....IENM...E....L..G...Q....AC.RTEPPNTKLWD       492
MCLK4   QDSL..VQ....MRRM..F...Q....A...L....AG.TPEERSFHSSSR      486
MCLK5   CHDE...K.....RRM.....R....D...Q....DL..RK                489

MCLK1
MCLK2   SSRDISR                                                   499
MCLK3   NPSR                                                      496
MCLK4
```

FIG. 2

MPHPRRYHSSERGSRGSYHEHYQSRKHKRRRSRSWSSSSDRTRRRRREDSYHV
RSRSSYDDHSSDRRLYDRRYCGSYRRNDYSRDRGEAYYDTDFRQSYEYHRENS
SYRSQRSSRRKHRRRRRRSRTFSRSSSHSSRRAKSVEDDAEGHLIYHVGDWLQE
RYEIVSTLGEGTSGRVVQCVDHRRGGTRVALKIIKNVEKYKEAARLEINVLEKI
NEKDPDNKNLCVQMFDWFDYHGHMCISFELLGLSTFDFLKDNNYLPYPIHQ
VRHMAFQLCQAVKFLHDNKLTHTDLKPENILFVNSDYELTYNLEKKRDERSV
KSTAVRVVDFGSATFDHEHHSTIVSTRHYRAPEVILELGWSQPCDVWSIGCIIFE
YYVGFTLFQTHDNREHLAMMERILGPVPSRMIRKTRKQKYFYRGRLDWDENT
SAGRYVRENCKPLRRYLTSEAEDHHQLFDLIENMLEYEPAKRLTLGEALQHPF
FACLRTEPPNTKLWDSSRDISR

FIG. 3

```
   1 cgcacgggcc tcgccgccag aacgatgccc catccccgaa ggtaccattc ctcagagcga
  61 ggtagccggg ggagttacca cgaacactat cagagccgaa agcataagcg aagaagaagt
 121 cgctcctggt caagtagcag tgaccggaca aggcggcggc ggagggagga cagctaccac
 181 gttcggtccc gaagcagcta tgatgaccat tcgtccgatc ggcggctgta cgatcggcgg
 241 tactgtggca gctacaggcg caatgactac agccgggaca gaggggaggc ttactacgac
 301 acagactttc ggcagtccta tgaataccat cgagagaaca gcagttaccg aagccagcgc
 361 agcagccgaa ggaaacacag aaggcggagg agacggagcc ggacattcag ccgctcatct
 421 tcacacagca gccggagagc caagagtgta gaggacgacg ctgagggcca cctcatctac
 481 cacgtcgggg actggctaca agagcgatat gaaattgtaa gcaccttagg agaagggact
 541 tcgggccgag ttgtgcagtg tgtggaccat cgcaggggcg gaacacgagt tgccctgaag
 601 atcattaaga atgtggagaa gtacaaggaa gcagcccgac tagaaatcaa cgtgctggag
 661 aaaatcaatg agaaagatcc tgacaacaag aacctctgtg tccagatgtt tgactggttt
 721 gactaccatg gccacatgtg tatctccttt gagcttctgg gccttagcac cttcgatttc
 781 ctcaaagaca acaactacct gccctacccc atccaccaag tgcgccacat ggccttccag
 841 ctctgccagg ccgtcaagtt cctccatgat aacaagttga cacatacgga cctcaaacct
 901 gaaaatattc tgtttgtgaa ttcagactac gaactcacct acaacctaga gaagaagcga
 961 gatgagcgca gtgtaaagag cacagccgtg cgggtggtgg acttcggcag tgccaccttt
1021 gaccacgaac accatagcac cattgtctcc actcgccatt accgagcccc cgaggtcatc
1081 ctggagttgg gctggtcaca gccatgcgat gtatggagca taggctgcat catctttgag
1141 tactacgttg gcttcaccct cttccagacc catgacaaca gagagcatct agccatgatg
1201 gaaaggatcc tgggtcctgt cccttctcgg atgatcagaa agacaagaaa acagaaatat
1261 ttttatcggg gtcgcctgga ttgggatgag aacacctcag ccggccgcta cgttcgtgag
1321 aactgcaaac ctctgcggcg gtatctgacc tcagaggcag aggaccacca ccagctcttc
1381 gatctgattg aaaatatgct agagtatgag cctgctaagc ggctgacctt aggtgaagcc
1441 cttcagcatc ctttcttcgc ctgccttcgg actgagccac ccaacaccaa gttgtgggac
1501 tccagtcggg atatcagtcg gtgacaatta ggctgggc
```

FIG. 4

MHHCKRYRSPEPDPYLTYRWKRRRSYSREHEGRLRYPSRREPPPRRSRSRSHDR
IPYQRRYREHRDSDTYRCEERSPSFGEDCYGSSRSRHRRRSRERAPYRTRKHAH
HCHKRRTRSCSSASSRSQQSSKRSSRSVEDDKEGHLVCRIGDWLQERYEIVGNL
GEGTFGKVVECLDHARGKSQVALKIIRNVGKYREAARLEINVLKKIKEKDKEN
KFLCVLMSDWFNFHGHMCIAFELLGKNTFEFLKENNFQPYPLPHVRHMAYQ
LCHALRFLHENQLTHTDLKPENILFVNSEFETLYNEHKSCEEKSVKNTSIRVAD
FGSATFDHEHHTTIVATRHYRPPEVILELGWAQPCDVWSIGCILFEYYRGFTLF
QTHENREHLVMMEKILGPIPSHMIHRTRKQKYFYKGGLVWDENSSDGRYVKE
NCKPLKSYMLQDSLEHVQLFDLMRRMLEFDPAQRITLAEALLHPFFAGLTPEE
RSFHSSRNPSR

FIG. 5

```
   1 ctgcaggtcg acactagtgg atccaaagaa ttcggcacga gcgcagccgg agcctgggag
  61 acgatgcatc actgtaagcg ataccgttcc ccagagccag acccatacct gacgtaccgc
 121 tggaagagga ggcggtctta cagtcgggag catgaaggtc gactacgata cccatcccga
 181 agggagcctc ccccacggag atcacggtcc agaagccatg atcgtatacc ctaccagcgg
 241 aggtaccggg aacaccgtga cagtgatacg tatcggtgtg aagagcggag cccatctttt
 301 ggagaggact gctatgggtc ttcacgttct gcacatcgga gacggtcacg agagagggcg
 361 ccgtaccgta cccgcaagca tgcccaccac tgtcacaaac gccgtaccag gtcttgtagc
 421 agtgcttcct cgagaagcca acagagcagt aagcgcagca gccggagtgt ggaagatgac
 481 aaggagggcc acctggtgtg ccggatcggc gattggctcc aagagcgata tgagatcgtg
 541 gggaacctgg gtgaaggcac ctttggcaag gtggtggagt gcttggacca tgccagaggg
 601 aagtcacagg ttgccctgaa gatcatccgt aatgtgggca agtatcggga agctgctcgt
 661 ctagaaatta atgttctcaa gaaaatcaag gagaaagaca aggaaaataa gttcctttgt
 721 gtcctgatgt ctgactggtt caacttccat ggtcatatgt gcatcgcctt tgagctcctg
 781 ggcaagaaca cctttgagtt cctgaaggag aacaacttcc agccttaccc cctaccacat
 841 gtccggcaca tggcctacca gctctgtcat gcccttagat ttctacacga gaaccagctg
 901 acccacacag acttgaagcc agagaacatc ttgtttgtga attctgagtt tgaaaccctc
 961 tacaatgagc acaagagctg cgaggagaag tcagtgaaga acaccagcat ccgagtggca
1021 gactttggca gtgccacgtt tgaccatgaa catcacacca ccattgtggc cacccgtcac
1081 taccgcccac ctgaggtgat ccttgagctg ggctgggcac agccttgtga tgtctggagt
1141 atcggctgca ttctctttga gtactaccgt ggctttacac tcttccagac ccatgaaaat
1201 agagaacact tggttatgat ggagaagatt ctaggaccca tcccatcaca catgatccac
1261 cgtaccagga agcagaaata tttctacaaa gggggcctgg tttgggatga gaacagctct
1321 gatgggcggt atgtgaagga gaactgcaaa cctctgaaga gttacatgct gcaggactcc
1381 ctggagcatg tgcagctgtt tgacctgatg aggaggatgt tagagttcga ccctgctcag
1441 cgcatcacat tggcagaagc cttgctgcac cccttctttg ctggcctgac ccctgaggag
1501 cggtccttcc acagcagccg taaccccagc agatgacagg tgcaggccag cacacgaaga
1561 gttggagagc tggactgggc tgctggcccc ttttctccag cctctcccac tggcctcaga
1621 gccagagcca ccgatgaaca gtgcaatgtg aaggaaggca ggacctgcaa gggaaggggg
1681 aatgtggtgc ccggctgcca gaaagcacag attggaccca agcttttata tgttgtaaag
1741 ttataataaa gtgtttctta ctgtttgtaa aaaaaaaaaa aaaaaaa
```

FIG. 6

MRHSKRTHCPDWDSRESWGHESYSGSHKRKRRSHSSTQENRHCKPHHQFKD
SDCHYLEARCLNERDYRDRRYIDEYRNDYCEGYVPRHYHRDVESTYRIHCSKS
SVRSRRSSPKRKRNRPCASHQSHSKSHRRKRSRSIEDDEEGHLICQSGDVLRAR
YEIVDTLGEGAFGKVVECIDHGMDGLHVAVKIVKNVGRYREAARSEIQVLEH
LNSTDPNSVFRCVQMLEWFDHHGHVCIVFELLGLSTYDFIKENSFLPFQIDHIR
QMAYQICQSINFLHHNKLTHTDLKPENILFVKSDYVVKYNSKMKRDERTLKN
TDIKVVDFGSATYDDEHHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEY
YLGFTVFQTHDSKEHLAMMERILGPIPAHMIQKTRKRKYFHHNQLDWDEHSS
AGRYVRRRCKPLKEFMLCHDEEHEKLFDLVRRMLEYDPARRITLDEALQHPFF
DLLKRK

FIG. 7

```
   1 aaagagacgc agcggctgga gaggaacgac ggcggtttgg cgacatttct gcccaaaagg
  61 ccgcttgctt ttgcggagat gcggcattcc aaacgaactc actgtcctga ttgggatagt
 121 agagaaagct ggggccatga aagctacagt ggaagtcaca aacgcaagag aaggtctcac
 181 agcagtactc aggagaacag gcactgtaaa ccacatcatc agtttaaaga ctcggattgt
 241 cactatttag aagcaagatg cttgaatgag agagattatc gggaccggag atacattgat
 301 gaatacagaa atgactactg cgaaggatat gttccaagac attaccatag agacgttgaa
 361 agcacttacc ggatccattg cagtaaatcc tcagtcagga gcaggagaag cagccctaag
 421 agaaagcgta atagaccctg tgcaagtcat cagtcgcatt cgaagagcca ccgaaggaaa
 481 agatccagga gtatagagga tgatgaggag ggtcacctga tctgtcaaag tggagacgtt
 541 ctaagagcaa gatatgaaat cgtggacact ttaggtgaag gagcctttgg caaagttgta
 601 gagtgcattg atcacggcat ggatggctta catgtagcag tgaaaattgt aaaaaatgta
 661 ggacgttacc gggaggcagc tcgttctgaa atccaagtat tggagcactt gaacagcact
 721 gaccccaaca gtgtcttccg atgcgtccag atgctagagt ggtttgatca tcatggtcat
 781 gtttgtattg tgtttgagct gctgggactt agtacctatg attttattaa agaaaatagt
 841 tttctgccat ttcaaattga tcacatcagg caaatggctt atcagatctg ccagtctata
 901 aatttttac atcataataa attaacacac acggacctaa aacctgaaaa tattttattt
 961 gtgaagtctg actatgtagt caaatacaat tctaaaatga aacgagatga gcgcacattg
1021 aaaaacacag atatcaaagt tgttgatttt ggaagtgcaa catatgacga cgaacatcat
1081 agtactttgg tgtccacaag gcactacagg gctccagagg tcattttggc tctaggttgg
1141 tctcagcctt gtgatgtttg gagcataggc tgcattctta ttgagtacta ccttgggttc
1201 acagtctttc agacccacga tagtaaagag cacctggcaa tgatggagcg gatcttagga
1261 cccatcccag cacatatgat ccagaagaca aggaaacgca agtatttcca ccataaccag
1321 ctagattggg acgagcatag ttcagctggg agatatgtta ggagacgctg caagccgtta
1381 aaggaattta tgctgtgtca tgacgaagag catgagaagc tgtttgacct ggttcgaaga
1441 atgttggagt atgacccagc gagaaggatc accttggatg aagcattgca gcacccttc
1501 tttgacttat taaaaaggaa atgagtggga gtcagggcgg ccgcaccgc
```